



## SEQUENCE LISTING

&lt;110&gt; Morgan, Bruce A.

<120> REGULATION OF NEURAL DEVELOPMENT BY  
DAEDALOS

&lt;130&gt; 10287-044001

&lt;140&gt; 10/037,667

&lt;141&gt; 2001-10-25

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&lt;151&gt; 2000-10-25

&lt;160&gt; 13

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 537

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1

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20 25 30  
Gln His Ser Ser Pro Ser Arg Ser Leu Ser Ala Asn Ser Ile Lys Val  
35 40 45  
Glu Met Tyr Ser Asp Glu Glu Ser Ser Arg Leu Leu Gly Pro Asp Glu  
50 55 60  
Arg Leu Leu Asp Lys Asp Asp Ser Val Ile Val Glu Asp Ser Leu Ser  
65 70 75 80  
Glu Pro Leu Gly Tyr Cys Asp Gly Ser Gly Pro Glu Pro His Ser Pro  
85 90 95  
Gly Gly Ile Arg Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly  
100 105 110  
Met Val Cys Ile Gly Pro Asn Val Leu Met Val His Lys Arg Ser His  
115 120 125  
Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys Gly Ala Ser Phe Thr  
130 135 140  
Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys  
145 150 155 160  
Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys Arg Arg Arg Asp Ala  
165 170 175  
Leu Thr Gly His Leu Arg Thr His Ser Val Ser Ser Pro Thr Val Gly  
180 185 190  
Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Ser  
195 200 205  
Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu  
210 215 220  
Ser Thr Asp Ala Gln Ala Leu Thr Gly Gln Pro Gly Asp Glu Ile Arg  
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Asp Leu Glu Met Val Pro Asp Ser Met Leu His Pro Ser Thr Glu Arg

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<210> 2
<211> 532
<212> PRT
<213> Mus musculus
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			20					25					30		
Ile	Asp	Leu	Thr	Ser	Ser	Thr	Pro	Asn	Gly	Gln	Gln	Ala	Ser	Pro	Ser
		35					40					45			
His	Met	Thr	Ser	Thr	Asn	Ser	Val	Lys	Leu	Glu	Met	Gln	Ser	Asp	Glu
	50					55					60				
Glu	Cys	Asp	Arg	Gln	Pro	Leu	Ser	Arg	Glu	Asp	Glu	Ile	Arg	Gly	His
65					70					75					80
Asp	Glu	Gly	Ser	Ser	Leu	Glu	Glu	Ala	Leu	Ile	Glu	Ser	Ser	Glu	Val
				85					90					95	
Ala	Asp	Asn	Arg	Lys	Val	Gln	Asp	Leu	Gln	Gly	Glu	Arg	Gly	Ile	Arg

			100					105					110		
Leu	Pro	Asn	Gly	Lys	Leu	Lys	Cys	Asp	Val	Cys	Gly	Met	Val	Cys	Ile
		115					120					125			
Gly	Pro	Asn	Val	Leu	Met	Val	His	Lys	Arg	Ser	His	Thr	Gly	Glu	Arg
	130					135					140				
Pro	Phe	His	Cys	Asn	Gln	Cys	Gly	Arg	Ser	Phe	Thr	Gln	Lys	Gly	Asn
145				150						155					160
Leu	Leu	Arg	His	Ile	Lys	Leu	His	Ser	Gly	Glu	Lys	Pro	Phe	Lys	Cys
				165					170					175	
Pro	Phe	Cys	Ser	Tyr	Ala	Cys	Arg	Arg	Arg	Asp	Ala	Leu	Thr	Gly	His
			180					185					190		
Leu	Arg	Thr	His	Ser	Val	Gly	Lys	Pro	His	Lys	Cys	Asn	Tyr	Cys	Gly
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Arg	Ser	Tyr	Lys	Gln	Arg	Thr	Ser	Leu	Glu	Glu	His	Lys	Glu	Arg	Cys
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His	Asn	Tyr	Leu	Gln	Asn	Val	Ser	Met	Glu	Ala	Gly	Gln	Val	Met	
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Ser	His	His	Val	Pro	Pro	Met	Glu	Asp	Cys	Lys	Glu	Gln	Glu	Pro	Ile
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Glu	Lys	Leu	Thr	Ala	Asn	Met	Gly	Lys	Arg	Lys	Ser	Ser	Thr	Pro	Gln
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Lys	Phe	Val	Gly	Glu	Lys	Leu	Met	Arg	Phe	Ser	Tyr	Pro	Asp	Ile	His
	290					295					300				
Phe	His	Met	Asn	Leu	Thr	Tyr	Glu	Lys	Glu	Ala	Glu	Leu	Met	Gln	Ser
305				310						315					320
His	Met	Met	Asp	Gln	Ala	Ile	Asn	Asn	Ala	Ile	Thr	Tyr	Leu	Gly	Ala
				325					330					335	
Glu	Ala	Leu	His	Pro	Leu	Met	Gln	His	Ala	Pro	Ser	Thr	Ile	Ala	Glu
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Val	Ala	Pro	Val	Ile	Ser	Ser	Ala	Tyr	Ser	Gln	Val	Tyr	His	Pro	Asn
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Arg	Ile	Glu	Arg	Pro	Ile	Ser	Arg	Glu	Thr	Ser	Asp	Ser	His	Glu	Asn
	370					375					380				
Asn	Met	Asp	Gly	Pro	Ile	Ser	Leu	Ile	Arg	Pro	Lys	Ser	Arg	Pro	Gln
385				390						395					400
Glu	Arg	Glu	Ala	Ser	Pro	Ser	Asn	Ser	Cys	Leu	Asp	Ser	Thr	Asp	Ser
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Glu	Ser	Ser	His	Asp	Asp	Arg	Gln	Ser	Tyr	Gln	Gly	Asn	Pro	Ala	Leu
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Asn	Pro	Lys	Arg	Lys	Gln	Ser	Pro	Ala	Tyr	Met	Lys	Glu	Asp	Val	Lys
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<211> 507  
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 <213> Mus musculus

<400> 3

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Lys	Pro	His	Glu	Ile	Glu	Asn	Val	Asp	Ser	Arg	Glu	Ala	Pro	Ala	Asn	35	40	45	
Glu	Asp	Glu	Asp	Ala	Gly	Glu	Asp	Ser	Met	Lys	Val	Lys	Asp	Glu	Tyr	50	55	60	
Ser	Asp	Arg	Asp	Glu	Asn	Ile	Met	Lys	Pro	Glu	Pro	Met	Gly	Asp	Ala	65	70	75	80
Glu	Glu	Ser	Glu	Met	Pro	Tyr	Ser	Tyr	Ala	Arg	Glu	Tyr	Ser	Asp	Tyr	85	90	95	
Glu	Ser	Ile	Lys	Leu	Glu	Arg	His	Val	Pro	Tyr	Asp	Asn	Ser	Arg	Pro	100	105	110	
Thr	Ser	Gly	Lys	Met	Met	Cys	Asp	Val	Cys	Gly	Leu	Ser	Cys	Ile	Ser	115	120	125	
Phe	Asn	Val	Leu	Met	Val	His	Lys	Arg	Ser	His	Thr	Gly	Glu	Arg	Pro	130	135	140	
Phe	Gln	Cys	Asn	Gln	Cys	Gly	Ala	Ser	Phe	Thr	Gln	Lys	Gly	Asn	Leu	145	150	155	160
Leu	Arg	His	Ile	Lys	Leu	His	Thr	Gly	Glu	Lys	Pro	Phe	Lys	Cys	His	165	170	175	
Leu	Cys	Asn	Tyr	Ala	Cys	Gln	Arg	Arg	Asp	Ala	Leu	Thr	Gly	His	Leu	180	185	190	
Arg	Thr	His	Ser	Val	Glu	Lys	Pro	Tyr	Lys	Cys	Glu	Phe	Cys	Gly	Arg	195	200	205	
Ser	Tyr	Lys	Gln	Arg	Ser	Ser	Leu	Glu	Glu	His	Lys	Glu	Arg	Cys	Arg	210	215	220	
Ala	Phe	Leu	Gln	Asn	Pro	Asp	Leu	Gly	Asp	Ala	Ala	Ser	Val	Glu	Ala	225	230	235	240
Arg	His	Ile	Lys	Ala	Glu	Met	Gly	Ser	Glu	Arg	Ala	Leu	Val	Leu	Asp	245	250	255	
Arg	Leu	Ala	Ser	Asn	Val	Ala	Lys	Arg	Lys	Ser	Ser	Met	Pro	Gln	Lys	260	265	270	
Phe	Ile	Gly	Glu	Lys	Arg	His	Cys	Phe	Asp	Ala	Asn	Tyr	Asn	Pro	Gly	275	280	285	
Tyr	Met	Tyr	Glu	Lys	Glu	Asn	Glu	Met	Met	Gln	Thr	Arg	Met	Met	Asp	290	295	300	
Gln	Ala	Ile	Asn	Asn	Ala	Ile	Ser	Tyr	Leu	Gly	Ala	Glu	Ala	Phe	Arg	305	310	315	320
Pro	Leu	Val	Gln	Thr	Pro	Pro	Ala	Pro	Thr	Ser	Glu	Met	Val	Pro	Val	325	330	335	
Ile	Ser	Ser	Val	Tyr	Pro	Ile	Ala	Leu	Thr	Arg	Ala	Asp	Met	Pro	Met	340	345	350	
Gly	Ala	Pro	Gln	Glu	Met	Glu	Lys	Lys	Arg	Ile	Leu	Leu	Pro	Glu	Lys	355	360	365	
Ile	Leu	Pro	Ser	Glu	Arg	Gly	Leu	Ser	Pro	Asn	Asn	Ser	Ala	Gln	Asp	370	375	380	
Ser	Thr	Asp	Thr	Asp	Ser	Asn	His	Glu	Asp	Arg	Gln	His	Leu	Tyr	Gln	385	390	395	400
Gln	Ser	His	Val	Val	Leu	Pro	Gln	Ala	Arg	Asn	Gly	Met	Pro	Leu	Leu	405	410	415	

Lys Glu Val Pro Arg Ser Phe Glu Leu Leu Lys Pro Pro Pro Ile Cys  
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 Leu Arg Asp Ser Ile Lys Val Ile Asn Lys Glu Gly Glu Val Met Asp  
 435 440 445  
 Val Phe Arg Cys Asp His Cys His Val Leu Phe Leu Asp Tyr Val Met  
 450 455 460  
 Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys  
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 35 40 45  
 Ser Asp Arg Gly Met Ala Ser Asn Val Lys Val Glu Thr Gln Ser Asp  
 50 55 60  
 Glu Glu Asn Gly Arg Ala Cys Glu Met Asn Gly Glu Glu Cys Ala Glu  
 65 70 75 80  
 Asp Leu Arg Met Leu Asp Ala Ser Gly Glu Lys Met Asn Gly Ser His  
 85 90 95  
 Arg Asp Gln Gly Ser Ser Ala Leu Ser Gly Val Gly Gly Ile Arg Leu  
 100 105 110  
 Pro Asn Gly Lys Leu Lys Cys Asp Ile Cys Gly Ile Val Cys Ile Gly  
 115 120 125  
 Pro Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg Pro  
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 Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu  
 145 150 155 160  
 Leu Arg His Ile Lys Leu His Ser Gly Glu Lys Pro Phe Lys Cys His  
 165 170 175  
 Leu Cys Asn Tyr Ala Cys Arg Arg Arg Asp Ala Leu Thr Gly His Leu  
 180 185 190  
 Arg Thr His Ser Val Gly Lys Pro His Lys Cys Gly Tyr Cys Gly Arg  
 195 200 205  
 Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys His  
 210 215 220  
 Asn Tyr Leu Glu Ser Met Gly Leu Pro Gly Val Cys Pro Val Ile Lys  
 225 230 235 240  
 Glu Glu Thr Asn His Asn Glu Met Ala Glu Asp Leu Cys Lys Ile Gly  
 245 250 255  
 Ala Glu Arg Ser Leu Val Leu Asp Arg Leu Ala Ser Asn Val Ala Lys  
 260 265 270  
 Arg Lys Ser Ser Met Pro Gln Lys Phe Leu Gly Asp Lys Cys Leu Ser  
 275 280 285  
 Asp Met Pro Tyr Asp Ser Ala Asn Tyr Glu Lys Glu Asp Met Met Thr  
 290 295 300

Ser His Val Met Asp Gln Ala Ile Asn Asn Ala Ile Asn Tyr Leu Gly  
 305 310 315 320  
 Ala Glu Ser Leu Arg Pro Leu Val Gln Thr Pro Pro Gly Ser Ser Glu  
 325 330 335  
 Val Val Pro Val Ile Ser Ser Met Tyr Gln Leu His Lys Pro Pro Ser  
 340 345 350  
 Asp Gly Pro Pro Arg Ser Asn His Ser Ala Gln Asp Ala Val Asp Asn  
 355 360 365  
 Leu Leu Leu Leu Ser Lys Ala Lys Ser Val Ser Ser Glu Arg Glu Ala  
 370 375 380  
 Ser Pro Ser Asn Ser Cys Gln Asp Ser Thr Asp Thr Glu Ser Asn Ala  
 385 390 395 400  
 Glu Glu Gln Arg Ser Gly Leu Ile Tyr Leu Thr Asn His Ile Asn Pro  
 405 410 415  
 His Ala Arg Asn Gly Leu Ala Leu Lys Glu Glu Gln Arg Ala Tyr Glu  
 420 425 430  
 Val Leu Arg Ala Ala Ser Glu Asn Ser Gln Asp Ala Phe Arg Val Val  
 435 440 445  
 Ser Thr Ser Gly Glu Gln Leu Lys Val Tyr Lys Cys Glu His Cys Arg  
 450 455 460  
 Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His Met Gly Cys His  
 465 470 475 480  
 Gly Phe Arg Asp Pro Phe Glu Cys Asn Met Cys Gly Tyr His Ser Gln  
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 Asp Arg Tyr Glu Phe Ser Ser His Ile Thr Arg Gly Glu His Arg Tyr  
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 His Leu Ser  
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<212> PRT

<213> Mus musculus

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 Asp Ser Ser Leu Glu Lys Asp Phe Ser Asp Ala Leu Ile Gly Pro Thr  
 35 40 45  
 Val Ser Thr Pro Asn Ser Arg His Ser Ser Pro Ser Arg Ser Arg Ser  
 50 55 60  
 Ala Asn Ser Ile Lys Val Glu Met Tyr Gly Asp Asp Glu Ser Gly Arg  
 65 70 75 80  
 Leu Leu Ser His Glu Asp Arg Leu Ser Glu Lys Glu Asp Glu Ile Met  
 85 90 95  
 Gly Asp Asp Ser Leu Val Glu Pro Leu Gly Tyr Cys Asp Gly Pro Gly  
 100 105 110  
 Gln Asp Pro His Ser Pro Gly Ile Leu Leu Pro Asn Gly Lys Leu Lys  
 115 120 125  
 Cys Asp Ile Cys Gly Met Val Cys Ile Gly Pro Asn Val Leu Met Val  
 130 135 140  
 His Lys Arg Ser His Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys  
 145 150 155 160  
 Gly Ala Pro Phe Thr Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu  
 165 170 175

His Ser Gly Glu Lys Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys  
 180 185 190  
 Arg Arg Arg Asp Ala Leu Ser Gly His Leu Arg Thr His Ala Val Gly  
 195 200 205  
 Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Asn  
 210 215 220  
 Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu  
 225 230 235 240  
 Ser Asn Glu Ala Gln His Leu Pro Ala His Pro Gly Glu Trp Gly Pro  
 245 250 255  
 Gln Gly Gly Asn Cys Ile Cys Thr Arg Glu Lys Gln Met Arg Leu Ser  
 260 265 270  
 Leu Ala Asp Leu Pro Tyr Glu Met Asn Ser Ser Phe Glu Lys Asp Val  
 275 280 285  
 Glu Ile Val Ser His His Pro Leu Asp Thr Ala Tyr Gly Asn Ser Leu  
 290 295 300  
 Ala Phe Val Gly Gly Pro Met Arg Leu Pro Pro Thr Asn Cys Ile Ser  
 305 310 315 320  
 Glu Ile Thr Pro Val Ile Ser Ser Val Tyr Thr Gln Leu Gln Pro Met  
 325 330 335  
 Gln Gly Arg Pro Asp Met Pro Gly Asn Arg Glu Ala Ala Glu Gly His  
 340 345 350  
 Glu Asp Ile Pro Asp Gly Thr Gln Ile His Tyr Arg Gly Arg Ser Glu  
 355 360 365  
 His Gly Ala Ser Pro Thr Asn Gly Cys Gln Asp Ser Asn Thr Asp Thr  
 370 375 380  
 Glu Ser Asn His Glu Glu Arg Gly Ser Gln Ala Thr Ser Ser Arg Gln  
 385 390 395 400  
 Ser Ser Ala Tyr Ala Lys Glu Asp Gln Arg Pro Ser Asp Gly Gly Leu  
 405 410 415  
 Leu Leu Pro Ser Arg Ser Met Pro Gly Thr Ala Lys Glu Ser Leu Arg  
 420 425 430  
 Val Leu Gly Glu Asp Gly Val Gln Val Lys Val Phe Lys Cys Glu His  
 435 440 445  
 Cys Arg Val Leu Phe Leu Asp His Val Met Phe Thr Ile His Met Gly  
 450 455 460  
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24

Al  
cor